AMENDMENTS TO THE CLAIMS

1-18. (Canceled)

19. (New) An electronic apparatus, comprising:

an electrical power source; and

a heating device electrically connected to said electrical power source such that current

may be transmitted through a portion thereof, said heating device having electrical resistivity of

1,500 micro-Ohm-cm or greater, flexural strength of at least about 1,500 psi, and a density of

about 1.5 to 1.75 g/cc.

20. (New) The apparatus of Claim 19, wherein said heating device has a thermal

conductivity of less than or equal to 10 BTU/hr-ft-.degree. F.

21. (New) The apparatus of Claim 20, wherein said heating device has an electrical

resistivity of over 3,000 micro-Ohm-cm.

22. (New) The apparatus of Claim 19, wherein said heating device has an electrical

resistivity of over 3,000 micro-Ohm-cm.

23. (New) The apparatus of Claim 19, wherein said heating device is a soldering iron

tip.

24. (New) The apparatus of Claim 23, wherein said soldering iron tip includes first

and second electrodes.

25. (New) The apparatus of Claim 19, wherein said apparatus is a soldering iron.

26. (New) The apparatus of Claim 19, wherein the heating device includes graphite.

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27. (New) The apparatus of Claim 19, wherein the electrical power source includes at

least one battery.

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28. (New) The apparatus of Claim 19, further comprising a body constructed of a

heat resistant material.

29. (New) A portable electronic device, comprising:

a body;

an electrical power storage source associated with said body, said electrical power

storage source including positive and negative terminals; and

a heating element associated with said body, said heating element connected to said

positive or negative terminal, wherein said heating element is constructed of a material having

electrical resistivity of 1,500 micro-Ohm-cm or greater, flexural strength of at least about

1,500 psi, and a density of about 1.5 to 1.75 g/cc.

30. (New) The device of Claim 29, wherein said body is constructed of a heat

resistant material.

31. (New) The device of Claim 29, wherein said electrical power storage source

includes at least one battery.

32. (New) The device of Claim 29, wherein said heating element has a thermal

conductivity less than or equal to 10 BTU/hr-ft-.degree. F.

33. (New) The device of Claim 29, wherein said heating element has an electrical

resistivity of over 3,000 micro-Ohm-cm.

34. (New) The device of Claim 33, wherein said heating element has a thermal

conductivity of less than or equal to 10 BTU/hr-ft-.degree. F.

35. (New) The device of Claim 29, wherein the heating element includes graphite.

36. (New) The device of Claim 29, wherein said device is a soldering iron.

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Suite 2800 Seattle, Washington 98101 206.682.8100 37. (New) A device comprising electrical transmission structure and at least one heating element electrically connected to said electrical transmission structure, said heating

element having an electrical resistivity of 1,500 micro-Ohm-cm or greater, flexural strength of at

least about 1,500 psi, and a density of about 1.5 to 1.75 g/cc.

38. (New) The device of Claim 37, wherein said heating element has a thermal

conductivity less than or equal to 10 BTU/hr-ft-.degree. F.

39. (New) The device of Claim 38, wherein said heating element has an electrical

resistivity of over 3,000 micro-Ohm-cm.

40. (New) The device of Claim 37, wherein said heating element has an electrical

resistivity of over 3,000 micro-Ohm-cm.

41. (New) The device of Claim 37, wherein said device is a soldering iron.

42. (New) The device of Claim 37, wherein said heating element includes graphite.

43. (New) An electronic circuit comprising an electrical power source coupled in

electrical communication to at least one heating element, wherein said heating element has an

electrical resistivity of 1,500 micro-Ohm-cm or greater, flexural strength of at least about

1,500 psi, and a density of about 1.5 to 1.75 g/cc.

44. (New) The electronic circuit of Claim 43, wherein said heating element has a

thermal conductivity less than or equal to 10 BTU/hr-ft-.degree. F.

45. (New) The electronic circuit of Claim 44, wherein said heating element has an

electrical resistivity of over 3,000 micro-Ohm-cm.

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- 46. (New) The electronic circuit of Claim 43, wherein said heating element has an electrical resistivity of over 3,000 micro-Ohm-cm.
- 47. (New) The electronic circuit of Claim 43, wherein said electrical power source includes at least one battery.
- 48. (New) The electronic circuit of Claim 43, wherein said heating element includes graphite.